

# **Dual Education System in China: Development, Structure, and Challenges**

## **1. Introduction**

In recent decades, China has recognized the importance of developing a skilled workforce to support its transition from a manufacturing-based to an innovation-driven economy. To achieve this, China has been reforming its vocational education and training (VET) system by incorporating elements of the German-style dual education model, which integrates classroom learning with on-the-job training.

## **2. Historical Background**

Historically, China's vocational education was largely school-based and theory-oriented. Cooperation between enterprises and educational institutions was limited. However, since the early 2000s, China has gradually emphasized industry-school partnerships, with reforms accelerating after 2014 when the Ministry of Education launched pilot projects for modern apprenticeships.

## **3. Structure of the Dual System in China**

The modern dual education model in China typically involves collaboration between vocational colleges and enterprises. Students spend part of their time studying theoretical courses in school and the remaining time gaining practical experience in partner companies. Key components include: 1) Joint curriculum development by schools and enterprises; 2) Shared training responsibilities; 3) Assessment and certification based on both academic and workplace performance.

## **4. Policy Framework**

The Chinese government has issued several policies to strengthen the dual system, including the 'Modern Apprenticeship Pilot Program' and the 'Vocational Education Law (2022 revision)'. These initiatives encourage industry participation, improve teacher training, and ensure that vocational education aligns with industrial demand.

## **5. Case Studies**

Successful examples include the cooperation between Sino-German training centers in provinces such as Guangdong, Jiangsu, and Tianjin. These centers train students in fields such as advanced manufacturing, robotics, and automotive engineering using dual-training principles.

## **6. Challenges**

Despite progress, several challenges remain: 1) Unequal cooperation between schools and enterprises; 2) Lack of qualified trainers and mentors; 3) Insufficient legal and financial incentives for companies; 4) Limited social recognition of vocational education compared to academic education.

## **7. Future Prospects**

China continues to expand and adapt the dual education model to its local conditions. The government's focus on 'Made in China 2025' and 'Skills China' strategies emphasizes the need for highly skilled technical workers. Future success will depend on stronger policy support, enterprise engagement, and international collaboration.

## **8. Conclusion**

China's experience demonstrates that integrating academic learning with workplace training can significantly improve employment outcomes and support industrial modernization. The dual education model, adapted to Chinese realities, will remain a cornerstone of its human capital strategy.